

REPORT DOCUMENTATION PAGE

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1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 3 September 1997	3. REPORT TYPE AND DATES COVERED Annual Performance Report June 96 - July 97	
4. TITLE AND SUBTITLE MERTS Field Research/Integrated Marine Technology Center-construction of buildings and purchase of related equipment		5. FUNDING NUMBERS G-N00014-96-1-0873	
6. AUTHOR(S) John W. Wubben		8. PERFORMING ORGANIZATION REPORT NUMBER MERTS2-1996-97	
7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES) Marine and Environmental Research & Training Station (MERTS) c/o Clatsop Community College 1653 Jerome Avenue Astoria, OR 97103			
9. SPONSORING / MONITORING AGENCY NAMES(S) AND ADDRESS(ES) Office of Naval Research Program Officer Ronald A. DeMarco ONR 33 Ballston Centre Tower One, 800 North Quincy Street Arlington, VA 22217-5660		10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES			
a. DISTRIBUTION / AVAILABILITY STATEMENT Available to the public		12. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) The following steps have been taken to date to complete the purposes of the referenced grant: (1) employment of a qualified architect; (2) completion of facility design; (3) selection of a qualified Contract Manager/General Contractor; (4) contracting for completion of the MERTS Field Research/Integrated Marine Technology Center, with a Guaranteed Maximum Price; (5) purchase of related, selected materials and equipment; (6) progress on construction, including: (a) a completion date of 18 December 97; (b) construction progress report covering the period 21 April 97 to 28 August 97, detailing the status of key construction elements; (c) photographs showing the progress of the construction.			
14. SUBJECT TERMS		15. NUMBER OF PAGES	
17. SECURITY CLASSIFICATION OF REPORT Unclassified		18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	
		19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	
20. LIMITATION OF ABSTRACT UL			

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Standard Form 298 (Rev. 2-89)
Prescribed by ANSI Z39-18
298-102

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C - Contract	PR - Project
G - Grant	TA - Task
PE - Program Element	WU - Work Unit Accession No.

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Block 8. Performing Organization Report Number. Enter the unique alphanumeric report number(s) assigned by the organization performing the report.

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Block 15. Number of Pages. Enter the total number of pages.

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Block 20. Limitation of Abstract. This block must be completed to assign a limitation to the abstract. Enter either UL (unlimited) or SAR (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited.

Marine and Environmental Research and Training Station, Inc.

c/o Clatsop Community College

1653 Jerome Avenue ♦ Astoria, Oregon ♦ 97103 ♦ (503) 325-0910

MEMORANDUM

TO: Ronald A. De Marco, Ph. D., Head of Engineering, Materials, and
Physical Sciences, S & T Dept., Office of Naval Research

FROM: John Wubben, Principal Investigator 

SUBJECT: Annual Performance Report for Grant #N00014-96-1-0873

DATE: September 3, 1997

The following steps have been taken to date to complete the purposes of the referenced grant:

1. Employment of a qualified architect, Mahlum and Nordfors Smith Gordon.
2. Completion of facility design by the architect.
3. Selection of a qualified Contract Manager/General Contractor (CM/GC), S.D. Deacon, Inc., for the facilities construction project.
4. Agreement between the architect, CM/GC, and MERTS, Inc., on a contract for completion of the MERTS Field Research/Integrated Marine Technology Center, with a Guaranteed Maximum Price (GMP) which is consistent with the terms of the grant.

5. Purchase of related, selected materials and equipment consistent with the terms of the grant.

6. Progress on construction of the MERTS Field Research/Integrated Marine Technology Center, documented as follows:

a. An agreed-upon completion date of 18 December 97, as reflected in the enclosed CPM chart (Attachment A). This chart also documents progress on all phases of construction as of 20 August 97.

b. Construction progress report covering the period 21 April 97 to 28 August 97 (Attachment B) by Al Jaques, Project Manager. This report details key construction elements and their status as completed, ongoing, or scheduled. As of 28 August 97 construction was 20 days behind schedule, but efforts are being made to make up for the lost time (see page 2 of Attachment B). Given that the projected completion date is 18 December 97, and the grant period runs through 14 February 98, we feel there is more than adequate time to complete the project by the conclusion of the grant period.

c. Photographs taken over a period of days from 15 August 97 to 28 August 97, showing the progress of the construction, which provides graphic illustration of points made in Attachments A and B.

Dr. De Marco, we truly appreciate your excellent assistance and support in progressing toward completion of this grant.

If I make provide additional information or clarification of this report, please contact me.

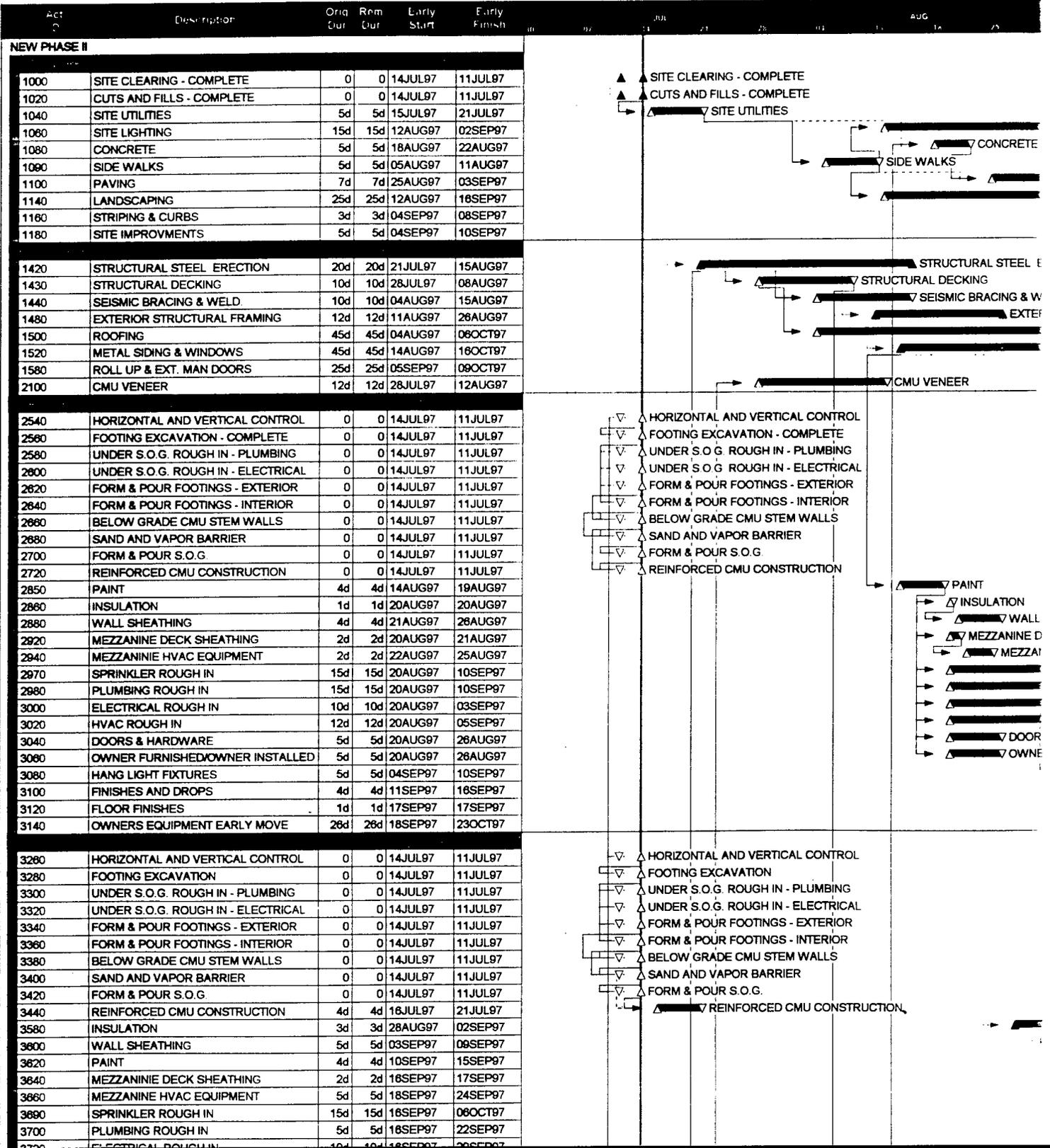
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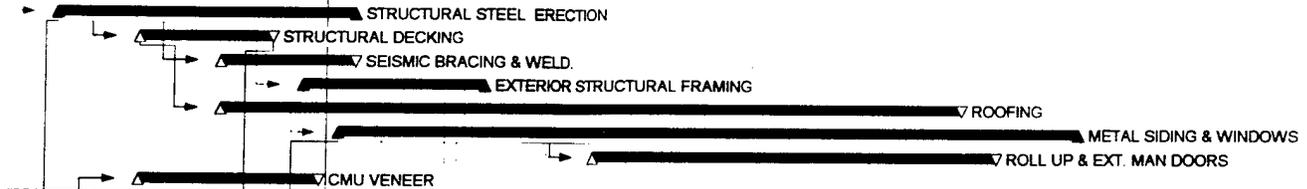
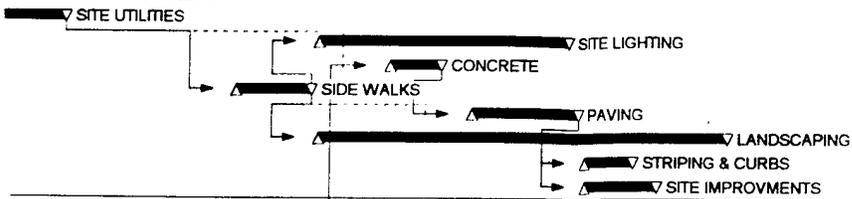
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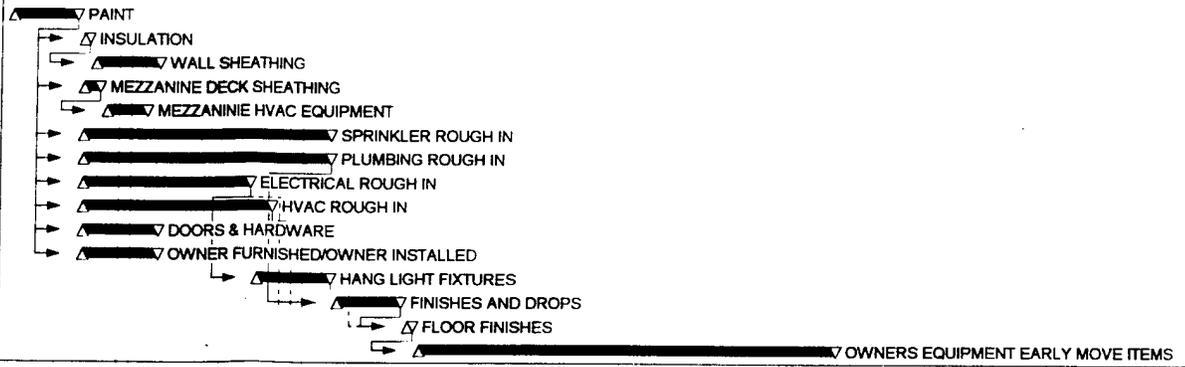
FIELD RESEARCH INTEGRATED MARINE TECHNOLOGY CENTER



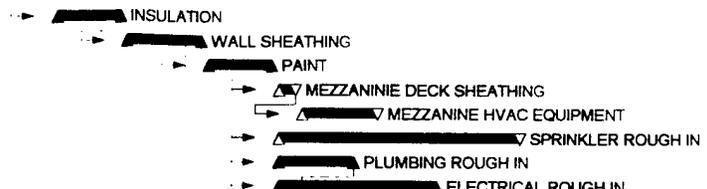
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ER S.O.G. ROUGH IN - PLUMBING
ER S.O.G. ROUGH IN - ELECTRICAL
RM & POUR FOOTINGS - EXTERIOR
RM & POUR FOOTINGS - INTERIOR
OW GRADE CMU STEM WALLS
ID AND VAPOR BARRIER
RM & POUR S.O.G.
NFORCED CMU CONSTRUCTION



HORIZONTAL AND VERTICAL CONTROL
TING EXCAVATION
ER S.O.G. ROUGH IN - PLUMBING
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RM & POUR FOOTINGS - EXTERIOR
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NFORCED CMU CONSTRUCTION



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S.D. DEACON
Pat Mahoney - PM
Chris Crothers - SUPT



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ROOFING
METAL SIDING & WINDOWS
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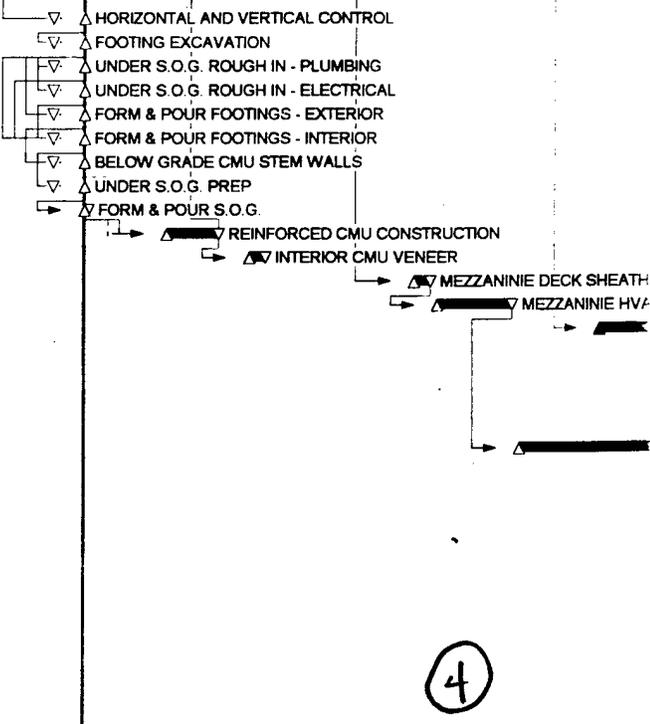
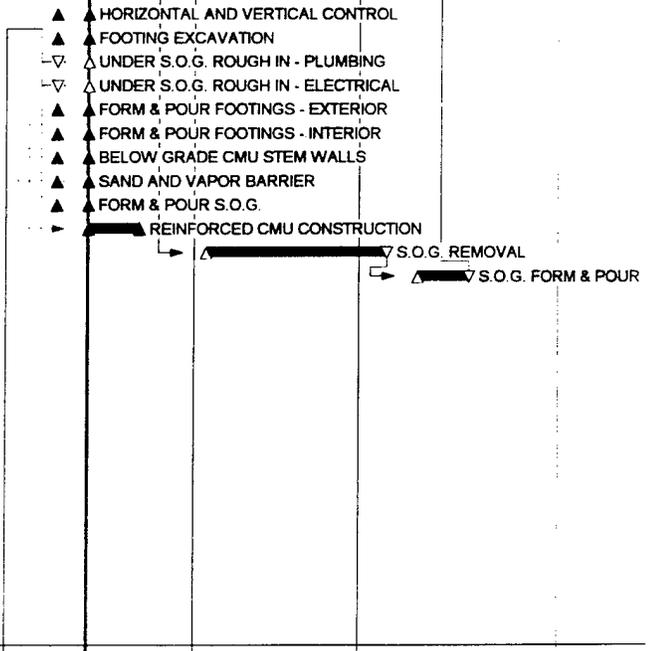
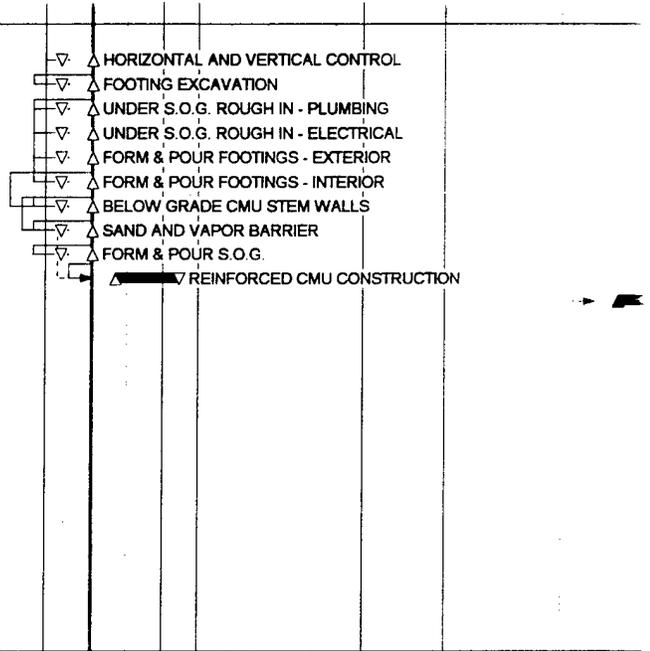
OWNERS EQUIPMENT EARLY MOVE ITEMS

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MEZZANINE HVAC EQUIPMENT
SPRINKLER ROUGH IN
PLUMBING ROUGH IN
ELECTRICAL ROUGH IN

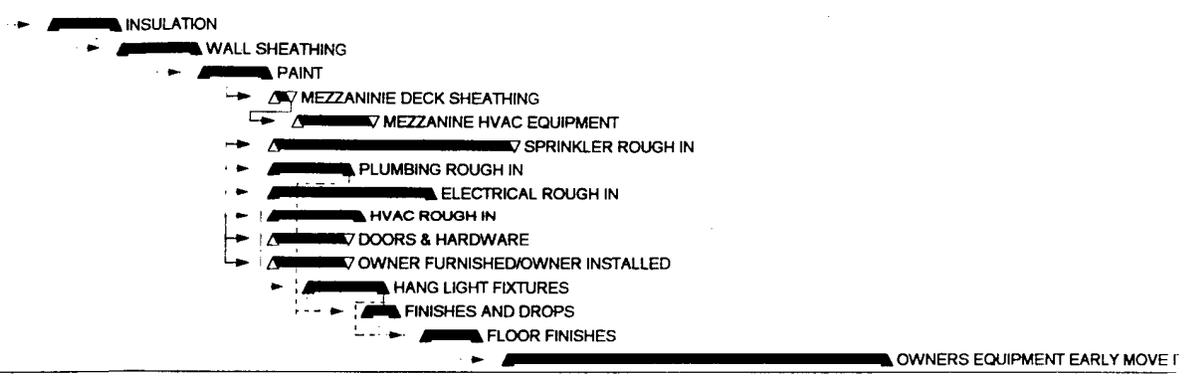
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3320	UNDER S.O.G. ROUGH IN - ELECTRICAL	0	0	14JUL97	11JUL97
3340	FORM & POUR FOOTINGS - EXTERIOR	0	0	14JUL97	11JUL97
3360	FORM & POUR FOOTINGS - INTERIOR	0	0	14JUL97	11JUL97
3380	BELOW GRADE CMU STEM WALLS	0	0	14JUL97	11JUL97
3400	SAND AND VAPOR BARRIER	0	0	14JUL97	11JUL97
3420	FORM & POUR S.O.G.	0	0	14JUL97	11JUL97
3440	REINFORCED CMU CONSTRUCTION	4d	4d	16JUL97	21JUL97
3580	INSULATION	3d	3d	28AUG97	02SEP97
3600	WALL SHEATHING	5d	5d	03SEP97	08SEP97
3620	PAINT	4d	4d	10SEP97	15SEP97
3640	MEZZANINE DECK SHEATHING	2d	2d	16SEP97	17SEP97
3660	MEZZANINE HVAC EQUIPMENT	5d	5d	18SEP97	24SEP97
3680	SPRINKLER ROUGH IN	15d	15d	16SEP97	06OCT97
3700	PLUMBING ROUGH IN	5d	5d	16SEP97	22SEP97
3720	ELECTRICAL ROUGH IN	10d	10d	16SEP97	29SEP97
3740	HVAC ROUGH IN	6d	6d	16SEP97	23SEP97
3760	DOORS & HARDWARE	5d	5d	16SEP97	22SEP97
3780	OWNER FURNISHED/OWNER INSTALLED	5d	5d	16SEP97	22SEP97
3800	HANG LIGHT FIXTURES	5d	5d	19SEP97	25SEP97
3820	FINISHES AND DROPS	3d	3d	24SEP97	26SEP97
3840	FLOOR FINISHES	5d	5d	29SEP97	03OCT97
3860	OWNERS EQUIPMENT EARLY MOVE	25d	25d	06OCT97	07NOV97

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1300	FORM & POUR FOOTINGS - EXTERIOR	0	0	14JUL97	11JUL97
1320	FORM & POUR FOOTINGS - INTERIOR	0	0	14JUL97	11JUL97
1340	BELOW GRADE CMU STEM WALLS	0	0	14JUL97	11JUL97
1360	SAND AND VAPOR BARRIER	0	0	14JUL97	11JUL97
1380	FORM & POUR S.O.G.	0	0	14JUL97	11JUL97
1400	REINFORCED CMU CONSTRUCTION	5d	5d	14JUL97	18JUL97
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1450	S.O.G. FORM & POUR	5d	5d	11AUG97	15AUG97
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1525	WALL SHEATHING	4d	4d	15SEP97	18SEP97
1530	PAINT	3d	3d	19SEP97	23SEP97
1540	MEZZANINE DECK SHEATHING	2d	2d	24SEP97	25SEP97
1560	MEZZANINE HVAC EQUIPMENT	5d	5d	26SEP97	02OCT97
1590	SPRINKLER ROUGH IN	20d	20d	24SEP97	21OCT97
1640	PLUMBING ROUGH IN	30d	30d	24SEP97	04NOV97
1660	ELECTRICAL ROUGH IN	20d	20d	24SEP97	21OCT97
1680	HVAC ROUGH IN	10d	10d	24SEP97	07OCT97
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1760	HANG LIGHT FIXTURES	15d	15d	01OCT97	21OCT97
1770	FINISHES AND DROPS	4d	4d	05NOV97	10NOV97
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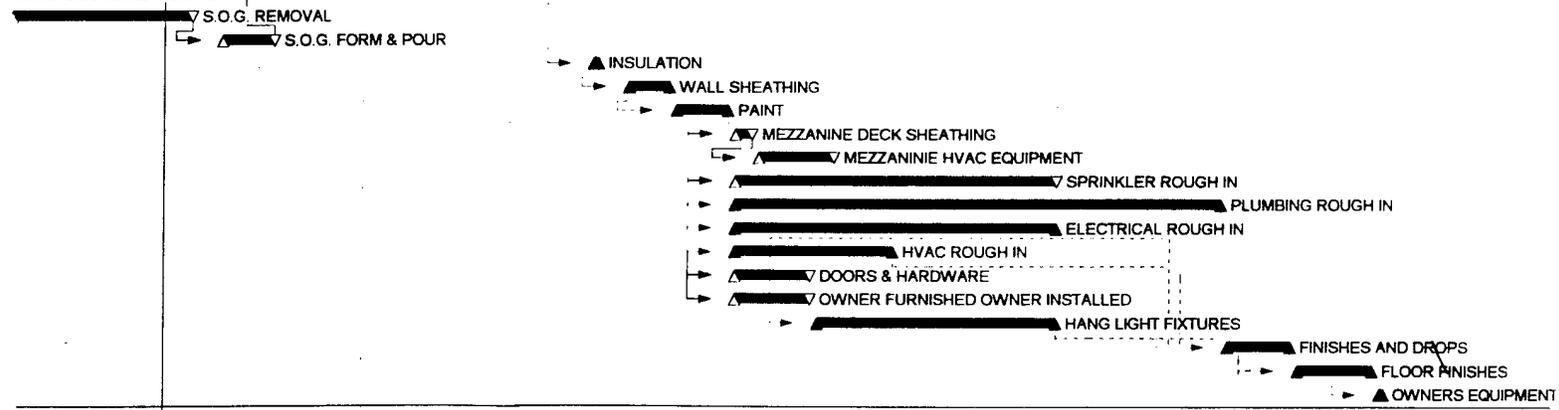
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2140	MEZZANINE DECK SHEATHING	2d	2d	11AUG97	12AUG97
2180	MEZZANINE HVAC EQUIPMENT	5d	5d	13AUG97	19AUG97
2250	FRAMING	14d	14d	27AUG97	18SEP97
2260	INSULATION	3d	3d	17SEP97	19SEP97
2270	SPRINKLER ROUGH IN	15d	15d	17SEP97	07OCT97
2300	PLUMBING ROUGH IN	10d	10d	17SEP97	30SEP97
2320	ELECTRICAL ROUGH IN	6d	6d	17SEP97	24SEP97
2340	HVAC ROUGH IN	10d	10d	20AUG97	03SEP97
2380	SHEET ROCK	10d	10d	01OCT97	14OCT97
2380	MUD & TAPE	10d	10d	08OCT97	21OCT97
2390	ACOUSTICAL CEILINGS	5d	5d	29OCT97	04NOV97
2400	PAINT	5d	5d	22OCT97	28OCT97
2410	LOW VOLTAGE & FIRE ALARM	15d	15d	29OCT97	18NOV97
2420	DOORS & HARDWARE	5d	5d	29OCT97	04NOV97
2440	FOLDING PARTITIONS	5d	5d	29OCT97	04NOV97
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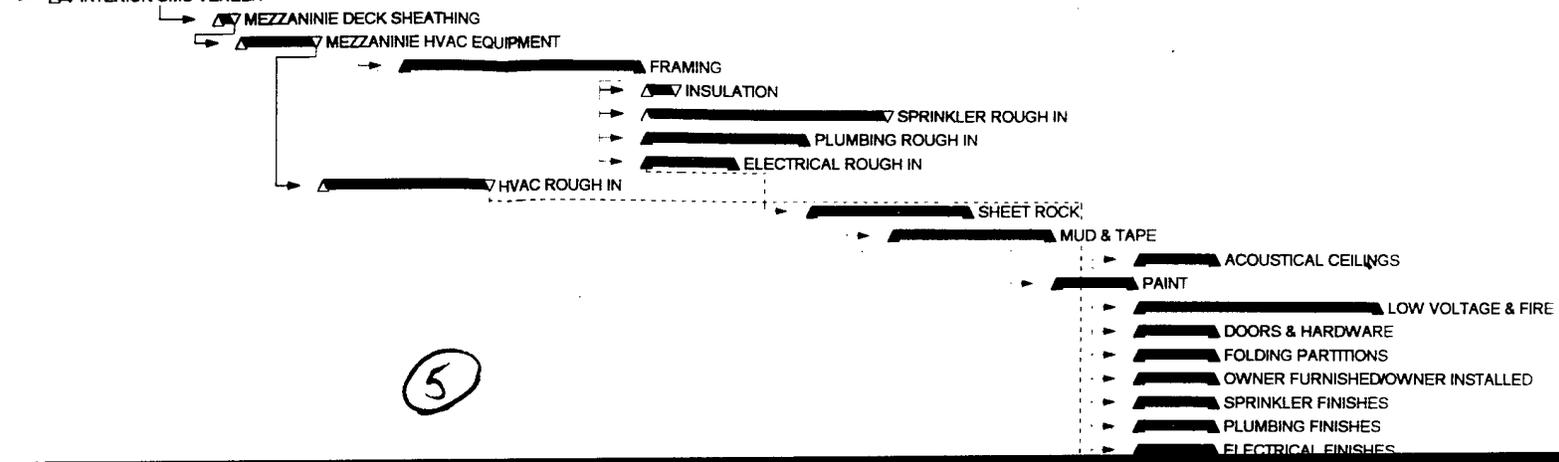
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 VAPOR BARRIER
 S.O.G.
 REINFORCED CMU CONSTRUCTION



LAND VERTICAL CONTROL
 CAVATION
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 ROUGH IN - ELECTRICAL
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 CMU STEM WALLS
 VAPOR BARRIER
 S.O.G.
 REINFORCED CMU CONSTRUCTION



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 REINFORCED CMU CONSTRUCTION
 INTERIOR CMU VENEER



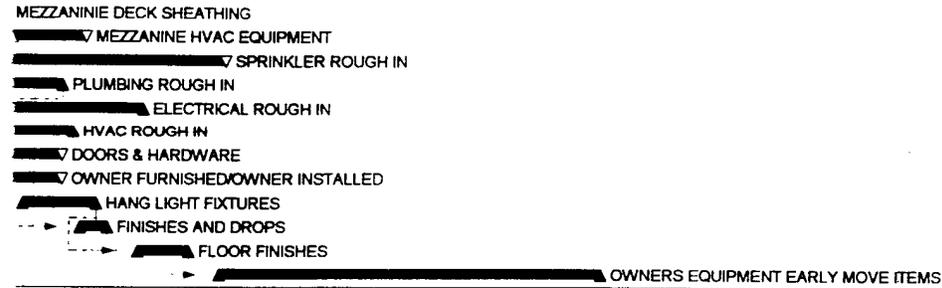
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✓ FLOOR FINISHES

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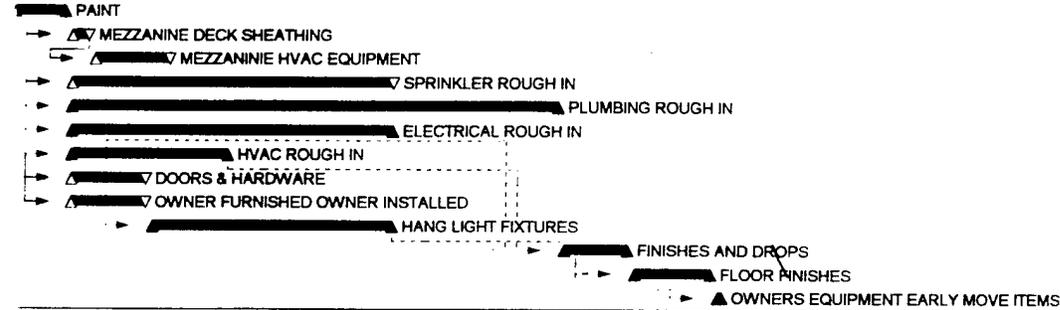
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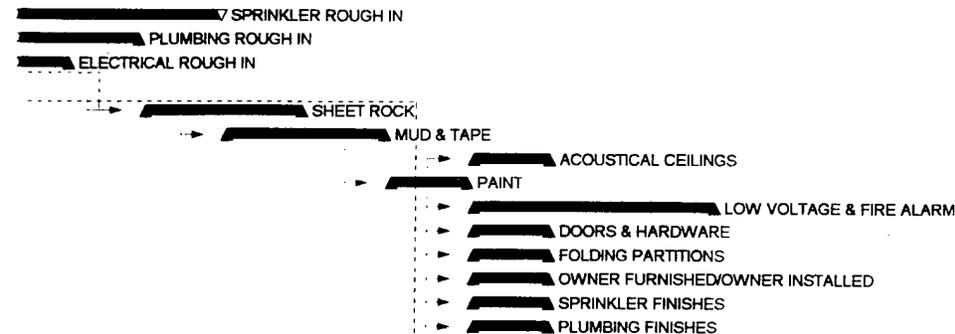
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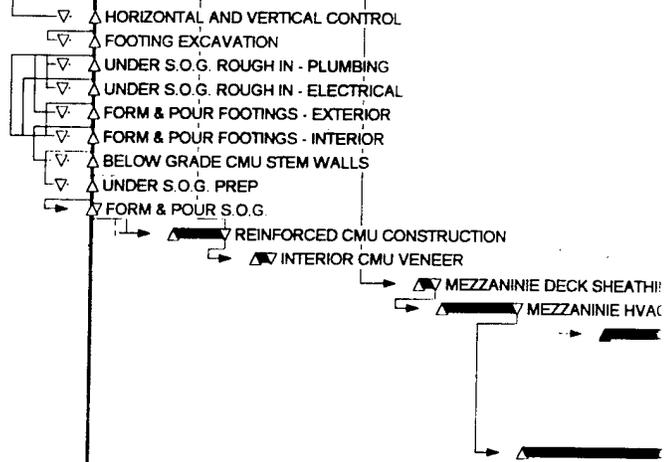
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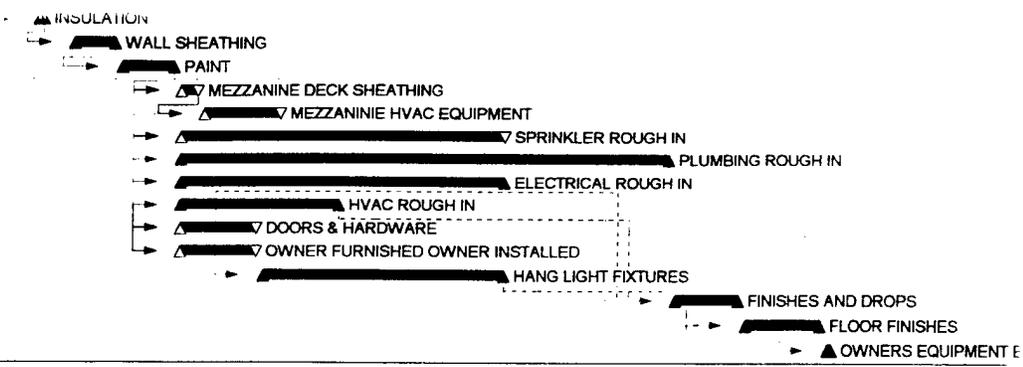
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1640	PLUMBING ROUGH IN	30d	30d	24SEP97	04NOV97
1660	ELECTRICAL ROUGH IN	20d	20d	24SEP97	21OCT97
1680	HVAC ROUGH IN	10d	10d	24SEP97	07OCT97
1700	DOORS & HARDWARE	5d	5d	24SEP97	30SEP97
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1770	FINISHES AND DROPS	4d	4d	05NOV97	10NOV97
1780	FLOOR FINISHES	5d	5d	11NOV97	17NOV97
1800	OWNERS EQUIPMENT EARLY MOVE	1d	1d	18NOV97	18NOV97

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1880	FOOTING EXCAVATION	0	0	14JUL97	11JUL97
1900	UNDER S.O.G. ROUGH IN - PLUMBING	0	0	14JUL97	11JUL97
1920	UNDER S.O.G. ROUGH IN - ELECTRICAL	0	0	14JUL97	11JUL97
1940	FORM & POUR FOOTINGS - EXTERIOR	0	0	14JUL97	11JUL97
1980	FORM & POUR FOOTINGS - INTERIOR	0	0	14JUL97	11JUL97
1980	BELOW GRADE CMU STEM WALLS	0	0	14JUL97	11JUL97
2000	UNDER S.O.G. PREP	0	0	14JUL97	11JUL97
2020	FORM & POUR S.O.G.	1d	1d	14JUL97	14JUL97
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2270	SPRINKLER ROUGH IN	15d	15d	17SEP97	07OCT97
2300	PLUMBING ROUGH IN	10d	10d	17SEP97	30SEP97
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2360	SHEET ROCK	10d	10d	01OCT97	14OCT97
2380	MUD & TAPE	10d	10d	08OCT97	21OCT97
2390	ACOUSTICAL CEILINGS	5d	5d	29OCT97	04NOV97
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2410	LOW VOLTAGE & FIRE ALARM	15d	15d	29OCT97	18NOV97
2420	DOORS & HARDWARE	5d	5d	29OCT97	04NOV97
2440	FOLDING PARTITIONS	5d	5d	29OCT97	04NOV97
2480	OWNER FURNISHED/OWNER INSTALLED	5d	5d	29OCT97	04NOV97
2470	SPRINKLER FINISHES	5d	5d	29OCT97	04NOV97
2500	PLUMBING FINISHES	5d	5d	29OCT97	04NOV97
2520	ELECTRICAL FINISHES	5d	5d	29OCT97	04NOV97
2530	HVAC FINISHERS	3d	3d	29OCT97	31OCT97
2550	SUBSTANTIAL COMPLETION	1d	1d	18NOV97	18NOV97
2570	PUNCH LIST	20d	20d	18NOV97	17DEC97
2580	CERTIFICATE OF OCCUPANCY	1d	1d	18DEC97	18DEC97

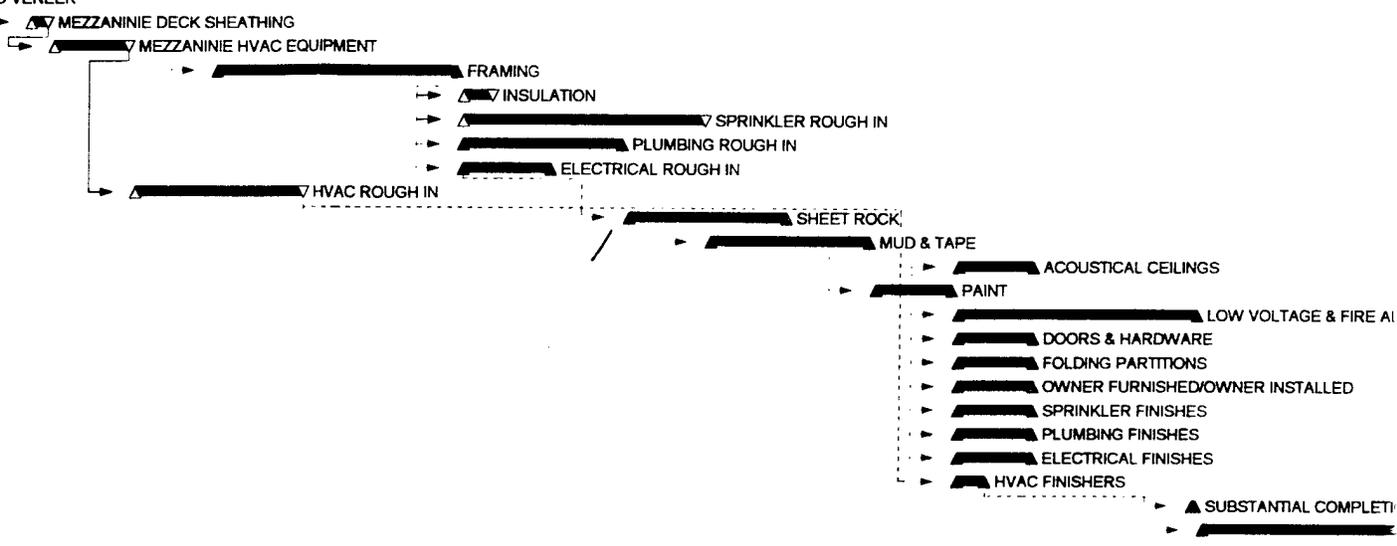


- △ Early start point
- ▽ Early finish point
- ▬ Early bar
- ▬ Progress bar
- ▬ Critical bar
- ▬ Summary bar
- ▲ Progress point
- ▲ Critical point
- ▼ Summary point
- ◆ Start milestone point
- ◆ Finish milestone point

7



ID VERTICAL CONTROL
 /ATION
 OUGH IN - PLUMBING
 OUGH IN - ELECTRICAL
 OOTINGS - EXTERIOR
 OOTINGS - INTERIOR
 CMU STEM WALLS
 REP
 :O G
 ' REINFORCED CMU CONSTRUCTION
 - ▽ INTERIOR CMU VENEER



NINE DECK SHEATHING

MEZZANINE HVAC EQUIPMENT

SPRINKLER ROUGH IN

PLUMBING ROUGH IN

ELECTRICAL ROUGH IN

HVAC ROUGH IN

DOORS & HARDWARE

OWNER FURNISHED OWNER INSTALLED

HANG LIGHT FIXTURES

FINISHES AND DROPS

FLOOR FINISHES

OWNERS EQUIPMENT EARLY MOVE ITEMS

SPRINKLER ROUGH IN

PLUMBING ROUGH IN

ELECTRICAL ROUGH IN

SHEET ROCK

MUD & TAPE

ACOUSTICAL CEILINGS

PAINT

LOW VOLTAGE & FIRE ALARM

DOORS & HARDWARE

FOLDING PARTITIONS

OWNER FURNISHED/OWNER INSTALLED

SPRINKLER FINISHES

PLUMBING FINISHES

ELECTRICAL FINISHES

HVAC FINISHERS

SUBSTANTIAL COMPLETION

PUNCH LIST

CERTIFICATE OF OCCUPANCY



9

CLATSOP COMMUNITY COLLEGE

MERTS Campus Construction

Field Research & Integrated Marine Technologies Center Project

Date: 8/28/97

To: CCC Board Members & Staff

From: Al Jaques, Project Manager

Re: Construction Progress Report 4/21/97-8/28/97, 130 Contract Days to Date

Status Legend: Completed / Ongoing / Scheduled

- O Owner's testing representative Braun/Intertec on-site for inspection & testing requirements
- O CCC & Astoria Police Department providing random security patrols
- O Site cuts/fills (excavation/grading to design specs) 80% to date
- S Final sub-grading preparation prior to paving
- C Roof drain underground piping runs w/cleanouts
- C Foundation perimeter drains
- C SOG replacement in Fabrication shop
- C All main structure SOG poured
- C First coat of sealer & hardener applied to all interior SOG
- S Fabrication shop exterior SOG
- S Sidewalks
- S Asphalt paving
- O Site-lighting conduit runs & light pole bases, 90% complete
- C Electrical transformer pad/vault and pull (junction) boxes set
- C Excavate & install primary electrical conduits
- O Communications tie-conduits between phase 1 & 2 bldgs
- O Fire alarm interface phase 1 & 2 bldgs
- C Northwest Natural Gas, mains & services to campus buildings
- C Exterior / Interior structural masonry walls
- C Damproofing application on CMU walls prior to veneer lay-up
- C Rigid insulation installation on CMU walls prior to veneer lay-up
- O Exterior veneer block installation, 95% complete
- O Structural steel erection & roof decking, 95% complete
- O Membrane built-up roofing @ flat roofs, 95% complete
- O Insulation & metal roofing installation
- O Exterior / Interior gauge framing (metal studs)
- O Field verification for rough opening of windows prior to fabrication

- Q CMU wall filler (base paint) & misc. painting preparation
- Q Interior piping infrastructure
- Q HVAC infrastructure
- Q Interior electrical infrastructure

Contractors on site

Workforce on-site at present: approx. 50

- Electrical, Wadsworth Electric Co.
- Plumbing, J P Plumbing Co.
- Testing & Inspection, Braun Intertec
- Masonry Grout Supplier, A1 Ready Mix
- Concrete Supplier, Fisher Ready Mix
- Steel Fabrication & Erection, Fisher Fabrication
- Gauge Framing, Landco
- Metal Roofing & Siding, Architectural Metal Works
- Painting, Black Oak Construction
- Masonry, B & B Tile and Masonry
- Concrete Slab Cleaning & Application of Hardener/Sealer, Brightway Inc.
- Earthwork, Jim Wilkins Co.
- Glazing (Windows), Culver Glass
- HVAC, HVAC Inc.

Coordination Activities

- Weekly scheduled team meetings, (General Contractor, Architect & Owner's Rep.)
- Weekly scheduled sub-contractors meetings, providing review of project status in terms of three week outlook, safety issues and project coordination requirements.
- 8/19/97, Mechanical & Electrical infrastructure coordination meeting with all relevant subcontractors
- 8/25/97, OSHA consultation on-site w/General and Subcontractors

Schedule Status

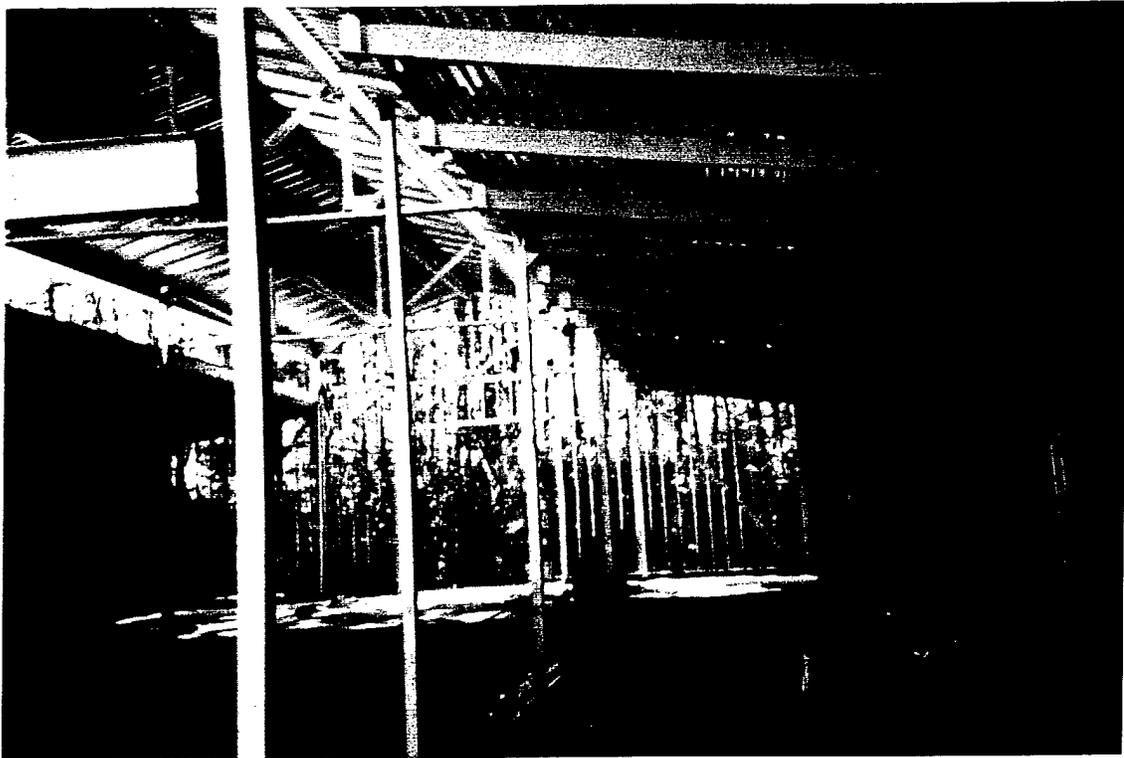
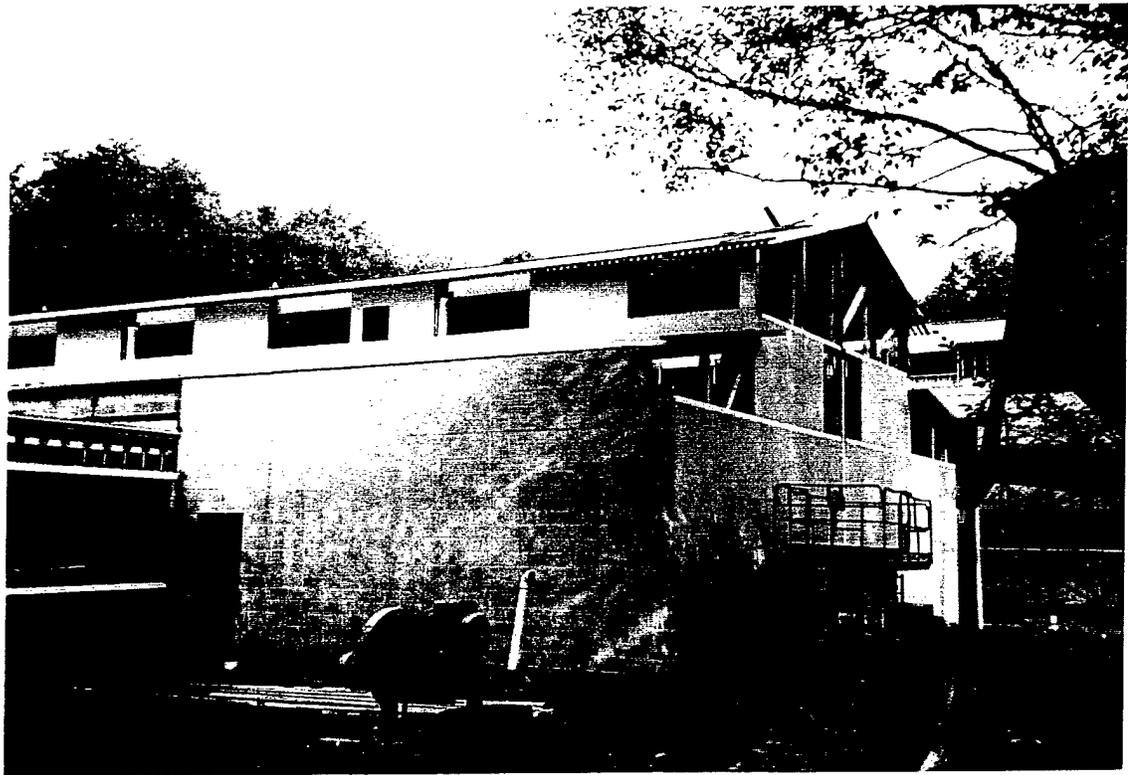
- Overall schedule status to date: approximately 20 days behind due to weather, late steel deliveries & erection delays. Coordination efforts are ongoing with all subcontractors to rectify any schedule deviation.

Budget Status

- Ten add/deduct CO's to date resulting in savings of \$16,289 below the original GMP
- Contract GMP \$3,706,469, Current GMP with CO's to-date, \$3,690,180
- Overall project expenditures to-date approximately \$1,800,000
- Overall construction contract expenditures to-date approximately \$1,002,000

Legend

- SOG** Slab-on-Grade
- GMP** Guaranteed Maximum Price (General Contractor's Construction Contract with Owner)
- CO's** Change Orders
- OSHA** Occupational Safety & Health Administration



Construction of MERTS Field Research/
Integrated Marine Technology Center
as of 28 August 1997

